

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/33761

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B32B 3/10 US CL : 428/44, 105, 113 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 428/44, 105, 113 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,820,568 A (HARPELL et al) 11 April 1989 (11.04.1989), see entire document.	All
A	US 4,204,016 A (CHAVANNES) 20 May 1980 (20.05.1980), see entire document.	All
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 12 March 2004 (12.03.2004)		Date of mailing of the international search report 14 APR 2004
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		Authorized officer Nasser Ahmad Jean Et. Paralegal Telephone No. 571-272-1487

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/31515

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04B 7/208; H04F 1/00

US CL : 455/7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 455/7, 15, 20, 21, 22; 370/315, 328, 338, 343, 344

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0089945 A1 (BELCEA) 11 July 2002 (11.07.2002) paragraphs 17, 62, 78, 82, 85, 154, 168	1-8, 13-19, 24, 25, 27-46
A	US 5,408,618 A (AHO et al) 18 April 1995 (18.04.1995) column 2, line 60 - col 4, line 10	1-46
A	US 2002/0018487 A1 (CHEN et al) 14 February 2002 (14.02.2002) paragraphs 12-18	1-46

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A"	document defining the general state of the art which is not considered to be of particular relevance	"I"	later document published after the international filing date or priority date and not to conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"A"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

22 March 2004 (22.03.2004)

Date of mailing of the international search report

13 APR 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703)305 3230

Authorized officer

Philip Sobutka

Telephone No. 703-305-4825

INTERNATIONAL SEARCH REPORT

PCT/US03/31515

Continuation of B. FIELDS SEARCHED Item 3:

APS, DERWNT, EPO, JPO

search terms: repeater, wlan, wireless local area network, configure, configuration, configured, configuring, message, protocol, frequency